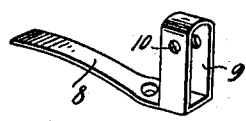
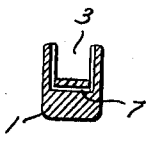
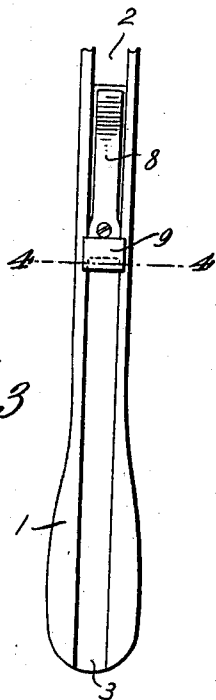
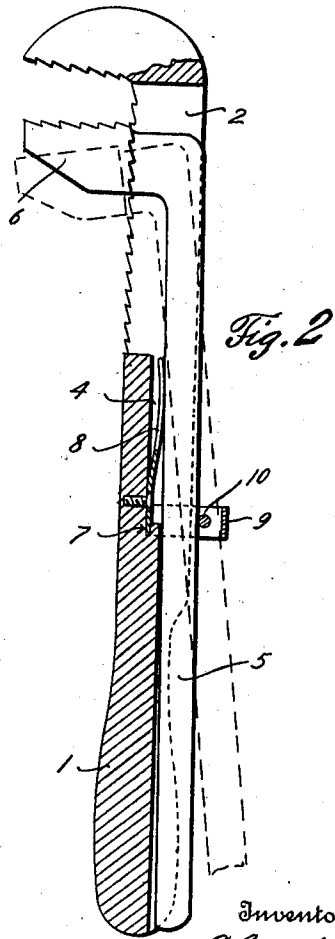
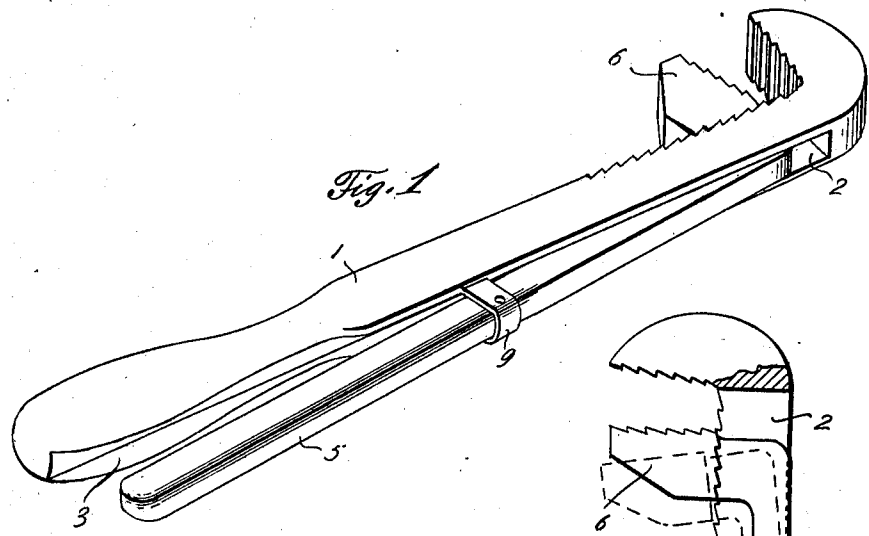


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 WRENCH.
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970,990.

Patented Sept. 20, 1910.



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UNITED STATES PATENT OFFICE.

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WRENCH.

970,990.

Specification of Letters Patent. Patented Sept. 20, 1910.

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To all whom it may concern:

Be it known that I, PEARL M. CLARK, a citizen of the United States, residing at Island Lake, in the county of Rusk and State of Wisconsin, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to wrenches and has for its object to provide one which may be easily and readily adjusted from one position to another and which is simple and durable in its construction.

With the above and other objects in view, this invention consists of the construction, combination and arrangement of parts all as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective of the wrench; Fig. 2 is a longitudinal section disclosing more clearly the present invention; Fig. 3 is a rear elevation of the handle of the wrench; Fig. 4 is a cross section on line 4—4 of Fig. 3; Fig. 5 is an attachment secured to the handle serving the purpose of a spring together with other objects to be hereinafter described.

Referring more particularly to the drawings, 1 indicates the handle of the wrench having a jaw at one terminal thereof, said handle being provided adjacent to the jaw with a slot 2 and a groove or recess 3, said recess running the entire length of the handle. Adjacent to the slotted portion the recess 3 is provided with a deepened portion 4 for the purpose hereinafter to be described.

A lever 5 is adapted to operate within the slotted portion of the handle, said lever having a jaw 6 on its terminal projecting through the said portion. The jaw 6 is provided with shoulders, said shoulders being provided with serrations which are adapted to cooperate with similar serrations provided on the handle, thus forming a footing or bearing for the lever jaw 6.

At the junction of the deepened portion of the recess or deeper recess 4 and the recess 3 is provided a groove 7. Within the groove and the deeper recess is seated a

spring 8 which may be secured to the handle by any suitable means such as a screw. It will thus be seen from the construction that the groove greatly strengthens the seating of the spring. The attached end of the spring is provided with an integral yoke 9 which serves a dual purpose, first, to retain the lever to the handle, and second, to form a fulcrum for the lever in adjusting the wrench to different sized articles. The yoke may be provided with coinciding apertures 10, through which a pin may be inserted for retaining the lever within the recess 3, said lever being so adapted to fit within said recess. This pin may also be inserted to be used as a fulcrum when the lever or lever jaw is wished to be adjusted for objects of large diameter. The jaws may be provided with teeth or not to correspond with the type of wrench desired.

It will thus be seen from the simple construction in the present invention that the wrench may be manufactured at a small expense, and yet is as strong and durable as the more costly kind.

What is claimed as new is:—

In a wrench, the combination of a handle provided with a jaw at one end thereof formed with a longitudinal slot, said handle having teeth adjacent to said slot, a lever provided with a jaw coacting with that aforesaid and provided with teeth on the jaw to engage the teeth of the handle, said lever passing through the slot of the handle, the handle having a recess longitudinally thereof, a flat spring between the handle and lever and secured to the handle in its recess, the recess being formed with a groove receiving one end of the spring and the opposite end of the spring being free to engage the lever, and a yoke integrally formed with the secured end of the spring so that the lever passes through said yoke and has a bearing thereagainst.

In testimony whereof I affix my signature in presence of two witnesses.

PEARL M. CLARK.

Witnesses:

WARREN C. DALE,
ORILLA TRUMBELL.